

# CURRENT INDUSTRIAL REPORTS SERIES

2011

## M311N — ANIMAL AND VEGETABLE FATS AND OILS (PRODUCTION, CONSUMPTION, AND STOCKS)

### DEFINITIONS AND SPECIAL INSTRUCTIONS

#### 1. Scope of survey

This survey covers establishments producing or consuming major edible and inedible fats and oils and warehouses storing these products.

#### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

You should report on this form if your plant operations involve:

Refining of any of the specified vegetable oils. **Note:** If your operations also involve the crushing or solvent processing of any vegetable oil bearing raw materials, you should also report on Census Form M311J, "Oilseeds, Beans, and Nuts, Monthly Report of Primary Processors."

Production and consumption of any of the specified animal fats. **Note:** If you produce but do not consume animal fats, you may report on Census Form M311L, "Fats and Oils, Monthly Report of Renderers."

Production of any of the fats and oils products specified in Reference List A, part II.

In addition, a limited number of large consumers of fats and oils are selected by the Census Bureau to report on Form M311N instead of on closely related Form M311M, "Fats and Oils, Monthly Report of Consumers."

Reference List A is a list of fats and oils collected on this survey. Reference List B specifies the items of information required for these fats and oils.

If you begin to consume, process, or store an oil which has not been preposted on the form, post it on the blank lines. If you are reporting in the "All Other Fats and Oils" category, review this each month to make sure it does not include oils specifically listed which should be reported separately.

#### 3. Unit of measure

Report all quantities in thousands of pounds.

#### 4. General definitions

**a. Production** — Report the quantities of the specified primary fats and oils and end products produced during the month.

**b. Consumption** — Report the quantities of crude oil consumed in the production of once-refined oil. Also report the quantities of crude oil and once-refined oil consumed directly in the production of listed end products during the month.

**c. Stocks** — Report the quantities of the specified primary fats and oils and end products stored at this location on the last day of the month.

##### *Include*

Stocks stored at this location regardless of ownership including government agencies such as the Commodity Credit Corporation.

Shipments in transit to this establishment on the last day of the month. For example, if a shipment arrived on the 3rd of February and you know that it was in transit for 5 days, include the oil in your January 31 stocks report.

##### *Exclude*

Outgoing shipments once they have left your establishment.

**Stocks owned by you that are held elsewhere, such as public or private warehouses not located at the processing location. These stocks should be reported for each location on Census Form M311H, "Animal and Vegetable Fats and Oils (Warehouse Stocks)." If you are not filing a Form M311H for such locations, please notify us and we will send you the necessary report forms.**

#### 5. Special instructions

##### **a. Animal fat renderers and consumers**

**Production** — Report lard, edible tallow, inedible tallow, yellow grease, other grease, feather meal, meat and meat and bone meal, dry rendered tankage, poultry fat, poultry by-product meal, and all other products rendered during the month.

**Consumption** — Report all lard, edible tallow, inedible tallow, yellow grease, and other grease consumed in end products during the month. Production of end products, i.e., baking or frying fats and fatty acids,

# CURRENT INDUSTRIAL REPORTS SERIES

M311N

## DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

### 5. Special instructions — Continued

must also be reported. For example, if you render edible tallow and refine it into shortening you must report:

- Edible tallow production, item code 7200
- Edible tallow consumed in shortening, item code 7241
- Baking or frying fats (shortening), 100% animal fats or blends, production, item code 8200.

**Note:** Edible tallow, inedible tallow, yellow grease, and other grease producers who ship their product directly to livestock and poultry feed mixers in the U.S. must also report this as consumption (End use 23).

**Stocks** — Report quantities of rendered products and end products stored at your facility at the end of the month.

#### *Include*

Rendered and refined lard  
Rendered and refined tallow and grease

Stocks and consumption of edible and inedible animal stearin, as well as edible and inedible hydrogenated animal fats, should be reported as stocks and consumption of the basic animal fat from which they originated.

#### **Special definitions for renderers**

Meat meal and meat and bone meal is the finely ground, dry rendered residue from mammal tissues exclusive of hair, hoof, horn, hide trimmings, blood meal, manure, and stomach contents, except in such traces as might occur unavoidably in good factory practice.

Feather meal (hydrolyzed poultry feathers) is the product resulting from the treatment under pressure of clean, undecomposed feathers from slaughtered poultry. Poultry by-products meal consists of the ground dry rendered or wet rendered clean parts of the carcass of slaughtered poultry, such as heads, feet, undeveloped eggs, and intestines, exclusive of feathers.

All other products includes blood meal. Blood meal is ground and/or screened dry blood.

#### **b. Vegetable oil refiners**

**Production** — Report the quantities of once-refined oil produced during the month.

Do not report

Production of crude oil — These figures should be reported on Census Form M311J.

**Consumption** — Report the quantities of crude oil consumed in the once-refining process.

**Consistency check:**

The quantity of crude oil consumed in refining should be approximately equal to the quantity of refined oil produced (less an allowance for refining loss).

The quantity of crude vegetable oils consumed in refining should not be reported as crude oil consumed in end products.

**Stocks** — Report quantities of crude and once-refined vegetable oil stored at your establishment on the last day of the month. **Note:** Continuous processors who already reported stocks of crude oil on the Census Form M311J should report only their refined oil stocks on this form.

#### **c. Edible product producers**

**Production** — Report the quantities of baking and frying fats (shortening), salad or cooking oil, and margarine produced during the month. See definitions below.

**Note:** Do not report production of margarine oil.

**Consumption** — Report the quantities of once-refined vegetable oil or animal fats consumed in salad or cooking oil, baking or frying fats, margarine, and other edible products, during the month. **Note:** Consumption figures should be closely related to production, with the only difference being the refining loss.

**Stocks** — Report quantities of edible products stored at this establishment on the last day of the month. **Note:** Stocks and consumption of vegetable oil stearin should be reported as stocks and consumption of the basic refined oil from which it originated.

#### **Special definitions for edible product producers**

Salad or cooking oils — Products which meet all of the following conditions:

Manufactured from vegetable oils  
Deodorized or winterized and deodorized  
Completely liquid at room temperature

#### *Include*

Clear oils sold to establishments making potato chips, bakery products, blended table oils, and salad dressings.

# CURRENT INDUSTRIAL REPORTS SERIES

M311N

## DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

### Special definitions for edible product producers — Continued

Oils refined and deodorized by mayonnaise and salad dressing producers for use in the plant. Do not report in "Other edible products."

Baking or frying fats (shortening) — Products which meet all of the following conditions:

Produced or sold entirely for baking or frying purposes

Manufactured from vegetable oils or meat fats or combinations thereof

Deodorized or hydrogenated and deodorized

Exhibit consistencies which may be fluid, plastic, or solid at room temperature

This category includes mono- and di-glycerides. It also includes hardened and deodorized lard, other hardened and deodorized fats or fractionated fats produced or sold entirely or primarily for baking or frying purposes.

Margarine — refers only to the finished product ready for table use or use by bakers.

Margarine oil — refers to the product from which margarine is made.

Stocks of margarine oils consumed in end products should be reported as the stocks and consumption of the oil or oils from which it originated.

### d. Shipments to feed mixers

Producers of edible tallow, inedible tallow and grease and vegetable oils

#### Include

Direct shipments of edible tallow, inedible tallow and grease and vegetable oils to livestock and poultry feed mixers in the U.S.

#### Exclude

Shipments to fat reprocessors

### e. Soap makers

Soap makers who split fats as the first step in soap making should report both the consumption of fats and oils consumed entirely in soap and the production and stocks of glycerin.

#### Include

Bar, flake, granulated, and liquid soap

#### Exclude

Synthetic detergents, shampoos, metallic soaps, and wetting agents

### f. Glycerin producers

Include both crude and refined glycerin from natural or synthetic sources. Natural glycerin is a product of soapmaking, fatty acid production, or any other fat splitting process. Synthetic glycerin is produced from sources other than fats and oils.

### g. Producers of paints, varnish, and drying oils

Oils used to produce drying oils should be reported under "Other inedible products." Subcategory "Drying oils," applies if the oils are packaged for sale to paint contractors and individual users.

For paint and varnish (End use 52):

#### Include

Oils used to make paints, varnishes, enamels, lacquers, and similar products.

#### Exclude

Oils used to produce drying oils and sold as such

Oils sold for use in paint resin

Drying oils held in bulk storage or sold to manufacturers of paint, printing ink, and linoleum producers are considered intermediate products. *Their stocks and consumption should be reported as stocks and consumption of the primary fat or oil from which they originated.*

### h. Producers of methyl esters (biodiesel)

Report the consumption of fats and oils used to produce biodiesel in "Consumed in methyl esters". Report the production of the crude glycerin byproduct of the transesterification process in item 8400. Stocks of the final product should not be reported as stocks of the feedstock.

### i. Tall oil producers and consumers

If refined or distilled tall oil is used in the production of other products, its use should be reported according to the end uses listed in Reference List B of these instructions.

# CURRENT INDUSTRIAL REPORTS SERIES

**M311N**

## **DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued**

### **i. Tall oil producers and consumers — Continued**

#### *Type of process used*

Acid refining process — Report quantities of crude or whole tall oil processed as consumed in "Refining" (End use 31).

Distillation or fractionation process — Report quantities of crude or whole tall oil processed as consumed in "Fatty acids" (End use 57).

In addition, report the production and stocks of the following:

Refined or distilled tall oil (containing less than 90% free fatty acids, excluding rosin acids)

Tall oil fatty acids (containing 90% or more free fatty acids, excluding rosin acids)

*Exclude* Other products such as rosin.

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST A— FATS AND OILS

Combine the item codes from Reference Lists A and B so that the first two digits represent the oil or oil product and the last two digits represent the stocks or end use.

FORM <b>M311N</b>		
<b>ANIMAL AND VEGETABLE FATS AND OILS (PRODUCTION, CONSUMPTION, AND STOCKS)</b>		
Product code	Item code Prefix	Item description
		<b>I. Primary fats and oils</b> Report stocks, production (except crude vegetable oils, and consumption in making end products)
3112231100	<b>02</b>	Cottonseed, crude
3112234100	<b>07</b>	Cottonseed, once refined
3112221151	<b>12</b>	Soybean, crude (include degummed, blown, boiled, heat treated, and acid refined)
3112221231	<b>15</b>	Soybean, once-refined
311223H151	<b>22</b>	Linseed, raw and boiled
311223H102	<b>24</b>	Linseed, all other
311223H101	<b>26</b>	Coconut, crude
311223H102	<b>28</b>	Coconut, refined
311223H152	<b>31</b>	Tung oil
3112218111	<b>34</b>	Corn, crude
3112218125	<b>36</b>	Corn, once-refined
311223H101	<b>39</b>	Peanut, crude
311223H102	<b>41</b>	Peanut, once-refined
311223H166	<b>44</b>	Palm, crude
311223H102	<b>45</b>	Palm, refined
311223H167	<b>47</b>	Palm kernel, crude
311223H185	<b>49</b>	Palm kernel, refined
311223H168	<b>56</b>	Rapeseed (canola), crude
311223H186	<b>57</b>	Rapeseed (canola), refined
311223H101	<b>51</b>	Sunflower, crude
311223H102	<b>53</b>	Sunflower, once refined
311223H196	<b>54</b>	Castor, crude No. 1 and No. 3 (include chemically dehydrated castor oil)
3116135271	<b>59</b>	Vegetable foots, raw and acidulated (100% basis)
311223H169	<b>62</b>	Safflower, crude
311223H187	<b>64</b>	Safflower, once refined
311611D131	<b>71</b>	Lard, including rendered pork fat (include lard stearin)

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST A — FATS AND OILS — Continued

Combine the item codes from Reference Lists A and B so that the first two digits represent the oil or oil product and the last two digits represent the stocks or end use.

FORM <b>M311N</b>		
<b>ANIMAL AND VEGETABLE FATS AND OILS (PRODUCTION, CONSUMPTION, AND STOCKS)</b>		
Product code	Item code Prefix	Item description
		<b>I. Primary fats and oils — Continued</b>
311611R131	<b>72</b>	Tallow, edible (including oleo stock and edible animal stearin)
3116132112	<b>75</b>	Tallow, inedible (including inedible animal stearin)
3116132132	<b>89</b>	Grease, yellow
3116132141	<b>92</b>	Grease, other (other than wool grease)
3116135111	<b>93</b>	Meat meal, and meat and bone meal, and dry rendered tankage
3116135271	<b>94</b>	Poultry fats
3116135281	<b>95</b>	Poultry by-products meal
3116135231	<b>96</b>	Feather meal
3116135291	<b>98</b>	All other products including blood meal and raw products for pet food
3117124415	<b>77</b>	Fish oil (except cod or liver) and marine mammal oil (except sperm )include refined and hydrogenated
3251910125	<b>86</b>	Tall oil, crude (report product also)
3251910235	<b>87</b>	Tall oil, refined or distilled (containing less than 90% free fatty acids not including rosin acids)
311223H195	<b>68</b>	All other primary fats and oils (report consumption only — Enter a single figure but list the primary fats and oils such babassu, oiticica, etc.)
		<b>II. Fats and oils products — (Report only stocks and production)</b>
3112252811	<b>81</b>	Baking or frying fats (shortening), 100% vegetable oil
3112252821	<b>82</b>	Baking or frying fats (shortening), 100% animal fat or blends of vegetable oil and animal fat
		Margarine
3112254100	<b>83</b>	Glycerin, crude, 100% basis (report consumption in refining)
325611A111	<b>84</b>	Glycerin, refined (all grades 100% basis)
325611A131	<b>85</b>	Fatty acids (all types)
3251991191	<b>88</b>	Soybean cooking or salad oil (fully refined and deodorized oil)
3112252845	<b>16</b>	All other cooking or salad oil (fully refined and deodorized oil)
3112252885	<b>17</b>	

## REFERENCE LIST B

# CURRENT INDUSTRIAL REPORTS SERIES

## INFORMATION TO BE REPORTED ON FATS AND OILS CONTAINED IN REFERENCE LIST A

FORM M311N

### ANIMAL AND VEGETABLE FATS AND OILS (PRODUCTION, CONSUMPTION, AND STOCKS)

Item code suffix	Item description
<b>10</b>	<b>Stocks, last day of the month</b> (include winter stearin in stocks of refined cottonseed oil)
<b>00</b>	<b>Production</b>
<b>XX</b>	<b>Total consumption</b>
<b>31</b>	<b>Consumed in alkali refining or similar processes</b>
	<b>Consumed in following end products:</b>
<b>41</b>	Baking or frying fats (shortening)
<b>42</b>	Salad or cooking oils
<b>43</b>	Margarine
<b>44</b>	Other edible products (e.g., confectionery fats, mellorine fats, whipped topping. If you produce more than one of these products, name each but report a combined figure)
<b>23</b>	Direct shipments to livestock and poultry feed mixers in the U.S. (exclude shipments to fat reproducers)
	Soap (do not include synthetic detergents, shampoos, metallic soap, wetting agents)
<b>51</b>	Paint and varnish, stain, enamel, and similar products (do not include drying oils sold as such)
<b>52</b>	Animal feeds
<b>53</b>	Methyl esters
<b>54</b>	Resins and plastics (including alkyd resins and plasticizers)
<b>55</b>	Lubricants and similar oils (specify kind: lubricant, grease, ocre oil, hydraulic brake fluid, metal work and treatment, cutting oil, dielectric oil)
<b>56</b>	Fatty acids (all types)
<b>57</b>	Inks (all types)
<b>58</b>	Other inedible products (if you produce more than one miscellaneous product, name each but report a combined figure)
<b>59</b>	Examples of other inedible products:
	Cosmetic
	Drying oils (packaged for sale to painting contractors and individual users)
	Glazing and caulking compounds
	Hydrogenated castor oil
	Linoleum
	Pharmaceuticals
	Polishes and waxes
	Rubber and rubber products
	Sulfonated oils
	Sulfonation and the production of sebacic acid
	Synthetic organic detergents
	Toilet preparations including shampoos